Table A.2.35. Main Yard AOC 34 Summary of Boring Log and Analytical Data

Boring/ Date/ Report	Total Depth of Boring	Depth to Water[1]	Lithologic Description[2] (Observation Notes)	Maximum PID Response, ppm_v (Depth)	Sample Type[3]	Sample ID (Depth)	Analyses[4]	COC Concentrations Greater Than Delineation Criteria
S0758 7/15/02 Full RFI AOC 34	7	NA	Fill: 0-5: (stained with product, product odor at 2.5-4; sheen present on core material at 4-5) Silt: 5-6 Clay: 6-7	661 (3.5-4)	O, U, F	S0758A4 (1.5-2)	V, S, M	None
					O, U, F	S0758C2 (4.5-5)	V, S, M, Phys. Char.	Arsenic: 25.3 mg/kg
					O, S, N	S0758D2/D2R (6.5-7)	V, S, M	None
S0757 7/15/02 Full RFI AOC 34	9	-	Fill: 0-5.5: (black asphalt seams at 1 and 2) Silt: 5.5-9	976 (3.5-4)	O, U, F	S0757A2 (0.5-1) S0757A4 (1.5-2)	V, S, M	None
					O, U, F	S0757B4 (3.5-4)	V, S, M, SPLP metals	SPLP Aluminum: 2.71 mg/L
					O, U, N	S0757D3 (7-7.5)	V, S, M	Iron: 24200 mg/kg
MW159 10/25/02 Full RFI AOC 34	12	4	Fill: 0-5.5: See S0757 Clay: 8-9 Sand: 9-10 Clay: 10-12	1.4 (9.5-10)	Water	MW159 (3/4/03)	V, S, M, water quality	None
S0756 7/11/02 Full RFI AOC 34	18	12	Fill: 0-12: (black prod. Stained; jar test yields slight sheen at 2.5-3.5; grayish product stained seams throughout, strong hydrocarbon odor at 3.5-12) Sand: 12-16 Clay: 16-17.7 Sand: 17.7-18	1572 (4.5-5)	O, U, F	S0756A4 (1.5-2)	V, S, M	None
					O, U, F	S0756B2 (2.5-3)	V, S, M	**Benzene: 3.85 mg/kg** Antimony: 23.1 mg/kg Arsenic: 29.6 mg/kg Iron: 51700 mg//kg Lead: 447 mg/kg
					O, U, F	S0756C2 (4.5-5)	V, S, M	None
					O, S, N	S0756I3 (17-17.5)	V, S, M	None

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Boring/ Date/ Report	Total Depth of Boring	Depth to Water[1]	Lithologic Description[2] (Observation Notes)	Maximum PID Response, ppm_v (Depth)	Sample Type[3]	Sample ID (Depth)	Analyses[4]	COC Concentrations Greater Than Delineation Criteria
H0437 10/7/99 2nd OWSS (MY1)	12	6	Fill: 0-7 Clay: 7-12	7 (7-8)	Water	H0437	V, S, M	Barium: 2290 ug/L Chromium: 520 ug/L Nickel: 209 ug/L
H0433 10/7/99 2nd OWSS (NF3)	12	3	Fill: 0-5: (fly ash, globules of black liquid, odor at 3-5 Clay: 5-12	309 (4-5)	Water	H0433	V, S, M, TPH	**Benzene: 3 ug/L**
H0427 10/4/99 2nd OWSS (NF2)	12	4	Fill: 0-9: (fly ash small black, angular gravels at 2-6) Clay: 9-12	0	Water	H0427	V, S, M, TPH	Arsenic: 10.7 ug/L Lead: 63.9 ug/L Vanadium: 68.3 ug/L
SB0256 10/8/96 1st OWSS (MY1)	12	--	Fill: 0-12: (black staining at 0-4)	0	O, U, F	SB0256SB (2-4)	V, S, M, TPH	None
SB0255 10/8/96 1st OWSS- (MY1)	6	--	Fill: 0-6: (black staining at 1.5-6)	0	O, U, F	SB0255SB (2-4)	V, S, M, TPH	None
SB0254 10/8/96 1st OWSS (MY1)	6	--	Fill: 0-6: (black staining at 2-6)	0	O, U, F	SB0254SC (4-6)	V, S, M, TPH	None
SB0253 10/8/06 1st OWSS (MY1)	6	--	Fill: 0-6: (strong petroleum odor at 1-6)	644 (4-6)	O, U, F	S0253SC (4-6)	V, S, M, TPH	**Benzene: 2.1 mg/kg**
HP0057 10/17/96 1st OWSS (MY1)	10	4	Fill: 0-10	16 (0-2)	Water	HP0057A	V, S, M	Arsenic: 182 ug/L Barium: 2680 ug/L Cadmium: 7.57 ug/L Chromium: 557 ug/L Lead: 1680 ug/L Mercury: 3.92 ug/L Nickel: 444 ug/L Vanadium: 1170 ug/L

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Boring/ Date/ Report	Total Depth of Boring	Depth to Water[1]	Lithologic Description[2] (Observation Notes)	Maximum PID Response, ppm_v (Depth)	Sample Type[3]	Sample ID (Depth)	Analyses[4]	COC Concentrations Greater Than Delineation Criteria
HP0051 10/4/96 1st OWSS (MY1)	6	4	Fill: 0-6: (petroleum odor at 4-5.5)	335 (4-6)	Water	HP0051A	V, S, M	**Benzene: 37 ug/L** Xylenes: 50 ug/L m&p cresols: 65 ug/L Arsenic: 184 ug/L Chromium: 917 ug/L Lead: 1270 ug/L Nickel: 784 ug/L Vanadium: 522 ug/L
HP0050 10/3/96 1st OWSS (M1)	8	4	Fill: 0-8: (petroleum odor and staining at 0-4; black stained sand at 2-3.5; petroleum odor at 4-6; petroleum odor and staining at 6-8	958 (2-4)	Water	HP0050A	V, S, M	**Benzene: 110 ug/L** Xylenes: 370 ug/L Beryllium: 35 ug/L Cadmium: 43.9 ug/L Chromium: 314 ug/L Lead: 910 ug/L Mercury: 6.44 ug/L Nickel: 1520 ug/L Vanadium: 379 ug/L
HP0049 10/3/96 1st OWSS (MY1)	10	8	Fill: 0-10: (trace petroleum odor and staining at 2-4; trace petroleum odor at 6-8; black stained silt; petroleum odor and staining at 9-9.7)	109 (2-4)	Water	HP0049	V, S, M	**Benzene: 2 ug/L** Xylenes: 54 ug/L Benzenethiol: 38 ug/L Arsenic: 202 ug/L Barium: 1880 ug/L Chromium: 529 ug/L Lead: 243 ug/L Nickel: 379 ug/L Vanadium: 562 ug/L

NOTES:

Benzene and benzo(a)pyrene are highlighted in bold because they are indicator constituents of concern (COCs)

Shaded rows indicate samples collected from nearby SWMUs/AOCs

ppm_v = parts per million (volume basis)

All depths referenced on this summary table are in feet below the ground surface.

PID = Photoionization detector.

ID = Identifier.

mg/kg = milligrams per kilogram (equivalent to parts per million).

µg/L = micrograms per liter (equivalent to parts per million).

[1]Depth to water as observed during borehole advancement.

[2]"Fill" encountered within the completed borings was characteristically described as an asphalt layer (typical) underlain by a heterogeneous gravel to clay mixture of unconsolidated materials, ranging in color from tan to gray with occasional construction debris (e.g., brick) present. In some locations, the fill material is further characterized by containing a slag or beaded material, in which case it is noted within the table. Also noted on the table are any other olfactory or visual observations that indicate potential petroleum-type impacts within the fill unit were observed.

[3]P – property boundary, O – on-site, U – unsaturated, S – saturated, F – fill, N – native. "None" indicates that no sample was collected.

[4]V – VOCs, S – SVOCs, M – metals, Pb – lead, TOL – total organic lead, TEL – tetraethyl lead, TPH – Total Petroleum Hydrocarbons; SPLP– Synthetic Precipitation Leaching Procedure; -Phys. Char.--physical characteristics.